

## MEMORANDUM FOR RECORD

SUBJECT: 2007 Midwinter Bald Eagle Survey

1. The annual bald eagle survey was conducted in Pulaski County on the afternoon of 3 January 07. One hundred forty (140) miles of the Gasconade River (GR), Big Piney River (BPR), and Roubidoux Creek (RC) w/in the county were surveyed by helicopter; the upper section of the GR was not surveyed due to temporal constraints. This is part of a nation-wide eagle survey conducted annually during the first week of January and is a joint effort between the U.S. Fish and Wildlife Service and state departments of conservation. FLW has assisted in the Pulaski County survey since 1976.
2. A total of 39 bald eagles was counted: 31 adults and 8 juveniles. No golden eagles were sighted. Eighteen eagles were counted on the BPR, four on the RC, and seventeen on the GR. Twelve eagles were located on or adjacent to FLW, eight on the BPR and four on RC. Attachment 1 (map) shows specific locations of each eagle sighting. We also counted 28 waterfowl during the survey. Since 1976, observers have counted 3-46 eagles, including five golden eagles, and up to 1003 waterfowl on the Pulaski County survey (Attachment 2).
3. Weather conditions were satisfactory: overcast, temperatures in the mid 50's, and light winds (5 - 10 mph). All streams were open, clear, and at normal seasonal flow. Eagles are primarily fish-eaters, live or carrion, and are dependent upon open water for foraging; waterfowl require open water for roosting and loafing.
4. Observers included Aaron Pondrom and Jason Braunecker (MDC County Conservation Agents), Harvey Dye and Kenton Lohraff (FLW Natural Resources), Mike Keeling (FLW Operations), and Steven Buie (FLW Game Warden). Approximately 2 ½ hours were required for the survey. Robert Hedgepeth, John Kloeckner, and Shane Luke of the Missouri National Guard piloted/crewed the Blackhawk helicopter used for the survey.

Wildlife Biologist  
DPW Natural Resources Branch

PULASKI COUNTY					
MIDWINTER BALD EAGLE SURVEY 2006					
WATERWAY	TOWNSHIP	RANGE	SECTION	ADULT	IMMATURE
			(1/4)		
<b>Roubidoux Creek</b>					
<b>(RC)</b>					
100% Open Water	34N	12W	3SW	2	
	35N	11W	7SE	1	
	36N	11W	31SW	1	
<b>RC Subtotal</b>				<b>4</b>	<b>0</b>
<b>Big Piney River</b>					
<b>(BPR)</b>					
100% Open Water	34N	10W	29NW	1	
	34N	10W	28NW	1	
	34N	10W	21SW	1	
	34N	10W	20NW	1	
	34N	10W	7NW	1	
	35N	10W	32NE	2	
	35N	10W	29SW	3	
	35N	11W	25NE		1
	35N	10W	21SW	2	
	35N	10W	9NE		1
	35N	10W	4SE	1	
	35N	10W	4NW		1
	36N	10W	30SW	1	1
<b>BPR Subtotal</b>				<b>14</b>	<b>4</b>
<b>Gasconade</b>					
<b>River (GR)</b>					
100% Open Water	37N	10W	21SW	1	
	37N	10W	20SW	1	
	37N	11W	28SW	1	
	37N	11W	20NW		1
	36N	11W	8NE	2	
	36N	12W	14SW	4	
	36N	12W	16SW		1
	36N	12W	7NE	1	1
	36N	12W	12SE	1	
	36N	12W	12SW		1
	36N	12W	11SW	1	
	35N	13W	6NW	1	
<b>GR Subtotal</b>				<b>13</b>	<b>4</b>
<b>GRAND TOTAL</b>				<b>31</b>	<b>8</b>

# ANNUAL BALD EAGLE/WATERFOWL SURVEYS IN PULASKI COUNTY

## EAGLES WATERFOWL

YEAR	ADULT	IMMATURE	TOTAL	DUCKS	GEESE	TOTAL
1976	2	1	3	6		6
1977	7	3	10	243		243
1978	15	1	16	25		25
1979	1	2	3	12		12
1980 *						
1981	16	17	33 +4	29	1	30
1982	13	12	25	66	1	67
1983	4	0	4	2		2
1984	5	1	6	195	6	201
1985	17	6	23	166	4	170
1986	15	3	18	77		77
1987	2	4	6	36		36
1988	12	2	14	28	34	62
1989	19	9	28	33		33
1990	15	7	22	32		32
1991	12	7	19	168	62	230
1992 *						
1993	30	9	39 +1	101	19	120
1994	13	2	15	18	2	20
1995	20	9	29	73		73
1996 **	9	6	15			0
1997 **	10	5	15	106		106
1998 **	10	9	19	4		4
1999	24	15	39	748	30	778
2000 **	17	8	25	1		1
2001 ***	6	4	10	218	785	1003
2002	19	8	27	19	13	32
2003	14	7	21	15		15
2004	36	10	46	75	50	125
2005	14	7	21	0	0	0
2006	28	17	45	9	0	9
2007	31	8	39	28	0	28

Survey area includes the Roubidoux Creek (33 miles), Big Piney River (42 miles), and Gasconade River (78 miles) within Pulaski County for a total of 153 river miles. Surveys are flown using a military helicopter. Observers include FLW, Missouri Department of Conservation (MDC), and U.S. Fish and Wildlife Service personnel.

\* Flight cancelled due to bad weather; no survey conducted.

\*\* Flight cancelled due to bad weather/helicopter support unavailable; survey conducted by boat/automobile/fixed point.

\*\*\* Helicopter support unavailable; MDC flew BPR/GR w/fixed wing; RC by automobile.

The + 4 in 1981 and +1 in 1993 indicate golden eagles observed during survey.